NO. 8762 P. 7/34

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Docket No.: 58799(71699)

AMENDMENTS TO THE CLAIMS

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1-15. (Canceled)

- 16. (Currently Amended) A method of killing a cell that is sensitive to DT-A or PEA, comprising infecting the cell with an adenovirus produced by a packaging cell line, wherein the adenovirus comprises an adenoviral vector comprising a promoter operably linked to a nucleic acid encoding the A subunit of diphtheria toxin (DT-A) or Pseudomonas Exotoxin A (PEA), and wherein the cell line is capable of producing adenovirus that expresses the A subunit of diphtheria toxin (DT-A) or Pseudomonas Exotoxin A (PEA), wherein the cell line does not produce replication-competent adenovirus when used in conjunction with non-overlapping E1-deleted adenovirus, wherein the cell line is resistant to DTA and PEA and wherein the cell line has a mutated human EF-2 gene that encodes an EF-2 protein that is mutated at codon 705.
 - 17. (Original) The method of claim 16, wherein the cell is a cancer cell.
 - 18. (Canceled)
- 19. (Currently Amended) A method of selectively killing a cell in a subject, comprising administering a therapeutically effective amount of an adenovirus to the subject wherein the adenovirus is produced by a packaging cell line, wherein the adenovirus comprises an adenoviral vector comprising a promoter operably linked to a nucleic acid encoding the A subunit of diphtheria toxin (DT-A) or Pseudomonas Exotoxin A (PEA), and wherein the cell line is capable of producing adenovirus that expresses the A subunit of diphtheria toxin (DT-A) or Pseudomonas Exotoxin A (PEA), and wherein the cell line does not produce replication-competent adenovirus when used in conjunction with non-overlapping E1-deleted adenovirus, wherein the cell line has a mutated human EF-2 gene that encodes an EF-2 protein that is mutated at codon 705, wherein the adenovirus comprises a tissue-specific promoter or enhancer that controls the expression of the DT-A or PEA wherein the tissue-specific promoter or enhancer is active only in the cell and not in other cells, thereby killing the cell but not other cells.
 - 20. (Original) The method of claim 19, wherein the cell is a cancer cell.
 - 21. (Canceled)

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22. (Currently Amended) A method of treating a subject suffering from cancer comprising administering a therapeutically effective amount of the adenovirus to the subject, wherein the adenovirus is produced by a packaging cell line, wherein the adenovirus comprises an adenoviral vector comprising a promoter operably linked to a nucleic acid encoding the A subunit of diphtheria toxin (DT-A) or Pseudomonas Exotoxin A (PEA), and wherein the cell line is capable of producing adenovirus that expresses the A subunit of diphtheria toxin (DT-A) or Pseudomonas Exotoxin A (PEA), and wherein the cell line does not produce replication-competent adenovirus when used in conjunction with non-overlapping E1-deleted adenovirus, wherein the cell line has a mutated human EF-2 gene that encodes an EF-2 protein that is mutated at codon 705, and wherein the cell line is resistant to DTA and PEA thereby treating said cancer.

23.-33. (Canceled)

- 34. (Previously Presented) The method of any one of claims 16, 19, or 22, wherein the glycine residue at codon 705 of the EF-2 protein is mutated to arginine.
- 35. (Previously Presented) The method of claim 16, wherein the packaging cell lines are resistant to about 10-9 M diphtheria toxin.
- 36. (Previously Presented) The method of claim 16, wherein the packaging cell lines contain the adenovirus E1 region.
- 37. (Previously Presented) The method of claim 16, wherein the packaging cell lines contain the adenovirus serotype 5 (Ad5) E1-A and E1-B encoding sequences.
- 38. (Previously Presented) The method of claim 16, wherein the packaging cell lines are derived from PER.C6 cells,